

Work Order ID 55503

January 19, 2010 1:47:27 PM

Page 1

Item ID: D3215-041

Accept

Revision ID:

Item Name: Belt Assembly

Start Date: 1/19/10 Start Qty: 18.00

Required Date: 1/25/10 Req'd Qty: 18.00

Reference:

Approvals: Process Plan: *PL*

Date: *10-1-19*

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D3215

Rev D

100

0.00



PURCHASING

Purchasing

Memo

0.00

Purchasing

Issue P/O: *11181* to Tulmar Safety Systems D3215-041 as per Dwg
D3215 Ship to Tulmar. Certificate of Conformity is required

PL 10-1-20
(18)

110

Receive & Inspect for Damage & Mat'l Certs

0.00



Packaging

Memo

0.00

Packaging

Ensure certificate of conformity is attached

PL 10-1-20
(18)

120

QC6- Inspect dimensions to drawing

0.00



QC

Memo

0.00

Quality Control

8 10/26/26

(40)

Work Order ID 55503

January 19, 2010 1:47:27 PM

Page 2

Item ID: D3215-041

Accept

Setup Start

Revision ID:

Stop

Item Name: Belt Assembly

Start Date: 1/19/10 Start Qty: 18.00

Cust Item ID:

Required Date: 1/25/10 Req'd Qty: 18.00

Customer:

Reference:

Run Start

Approvals: Process Plan: Date:

Tooling: Date:

Stop

QC: Date:

SPC (Y/N): Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

Identify as per dwg & Stock Location: 261

0.00



Packaging

Memo

0.00

Packaging

Per 10/4/06 *(18)*

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10/03/02
CL 03/01/10

Picklist Print

January 19, 2010 1:47:31 PM

Page 1

Work Order ID: 55503

Parent Item: D3215-041

Parent Item Name: Belt Assembly

Comments: IPP A 03.10.28 New Issue KJ/RF:
IPP B 07.06.12 ecn 940 EC

Start Date: 1/19/10

Required Date: 1/25/10

Start Qty: 18.00

Required Qty: 18.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3215-3 Webbing Tidy		Manufactured	No			110	Each	25.0000	18.0000			

D3216-1
Fitting

Manufactured No

Warehouse
Location

Main Warehouse

ST

53873

Loc Qty

25

25

Loc Code

110

Each

13.0000

18.0000

53873

Warehouse
Location

Main Warehouse

ST

53872

Loc Qty

13

13

Loc Code

355552 8X

53872 13X

[Handwritten signature]

[Handwritten signature] 01/19/10



SHOP COPY
TURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE

WORK ORDER

NO. 55503
AS 10-1-B

WEBBING
THREAD

D3216-1
(REF)

D3215-3 (REF)

RELEASED

07-06-07

ASSEMBLY DETAIL
NOT TO SCALE

PARTS LIST:

QTY	P/N	DESCRIPTION
X	D3215-041	BELT ASSEMBLY
AS REQ'D	SEE NOTE 1	WEBBING
AS REQ'D	SEE NOTE 1	WEBBING THREAD
AS REQ'D	SEE NOTE 1	LABEL THREAD
1	D3215-1	LABEL
1	D3215-3	WEBBING TIDY
1	D3216-1	WEBBING ADJUSTER

D3215-041 BELT ASSEMBLY:

1) MATERIAL: WEBBING = LAGRAN CANADA INC. 26472, 1.8 WIDE x 0.05 THICK BLACK POLYESTER WEBBING, CERTIFIED TO FAR 29.853A3, TENSILE STRENGTH 5700 lb MIN

OR BELT TECH CANADA INC. 27039, 1.8 WIDE x 0.05 THICK BLACK POLYESTER WEBBING, CERTIFIED TO FAR 29.853A3, TENSILE STRENGTH 6000 lb MIN

WEBBING THREAD = V-T-295 TYPE II CLASS A SIZE 3, BLACK NYLON THREAD

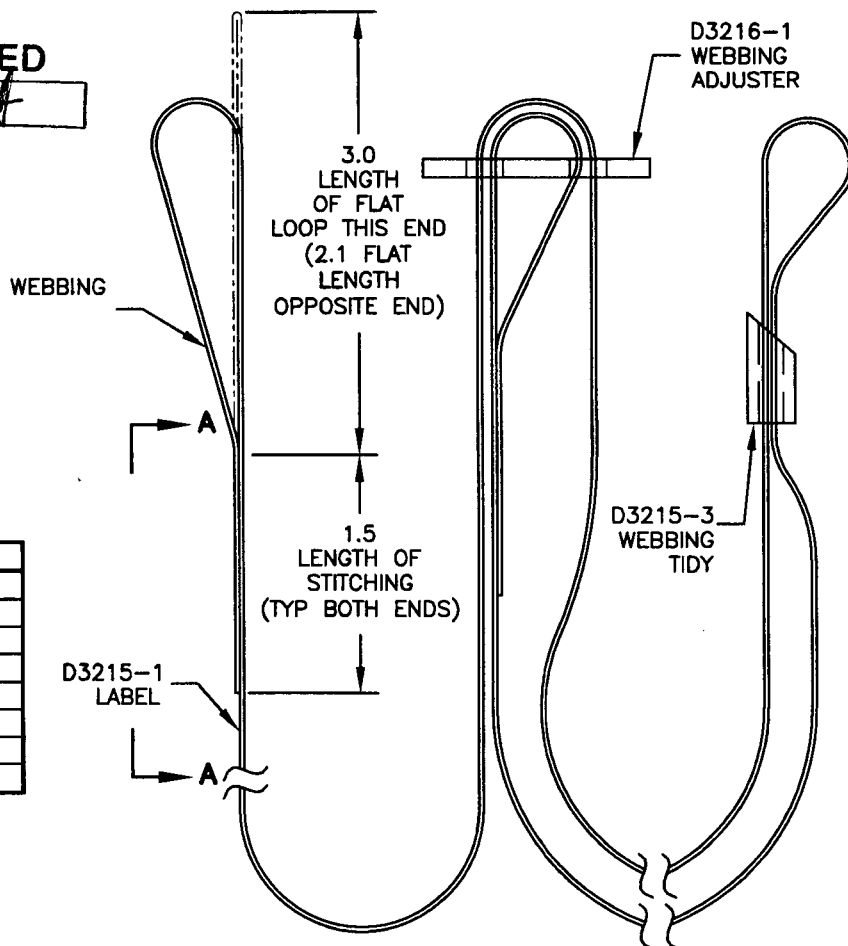
LABEL THREAD = V-T-295 TYPE II CLASS A SIZE F, BLACK NYLON THREAD

2) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

4) SEE SHEET 3 FOR VIEW A-A

DESIGN 9P	DRAWN BY CB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED LE	APPROVED H	DRAWING NO. D3215	REV. D SHEET 1 OF 3
DATE 07.03.27	TITLE BELT ASSEMBLY		SCALE NTS
A	03.09.19	NEW ISSUE	
B	04.01.12	AS MANUFACTURED; ADD TOLERANCE	
C	04.03.05	REDUCE LENGTH; CLARIFY STITCHING	
D	07.03.27	ADD WEBBING SUPPLIER; ADD LABEL THREAD AND MATERIAL; IN VIEW A-A, 1.4 WAS 1.8; ADD -3A AND -3B; UPDATE TOLERANCES	



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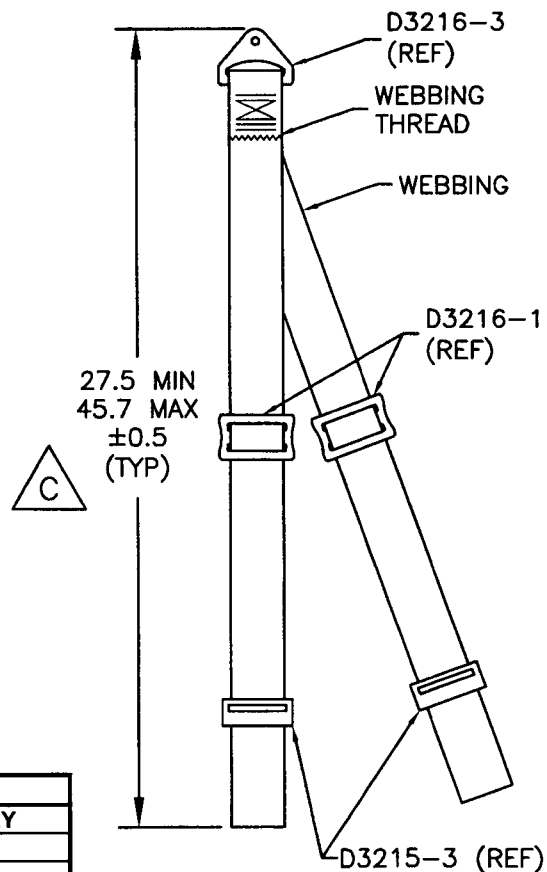
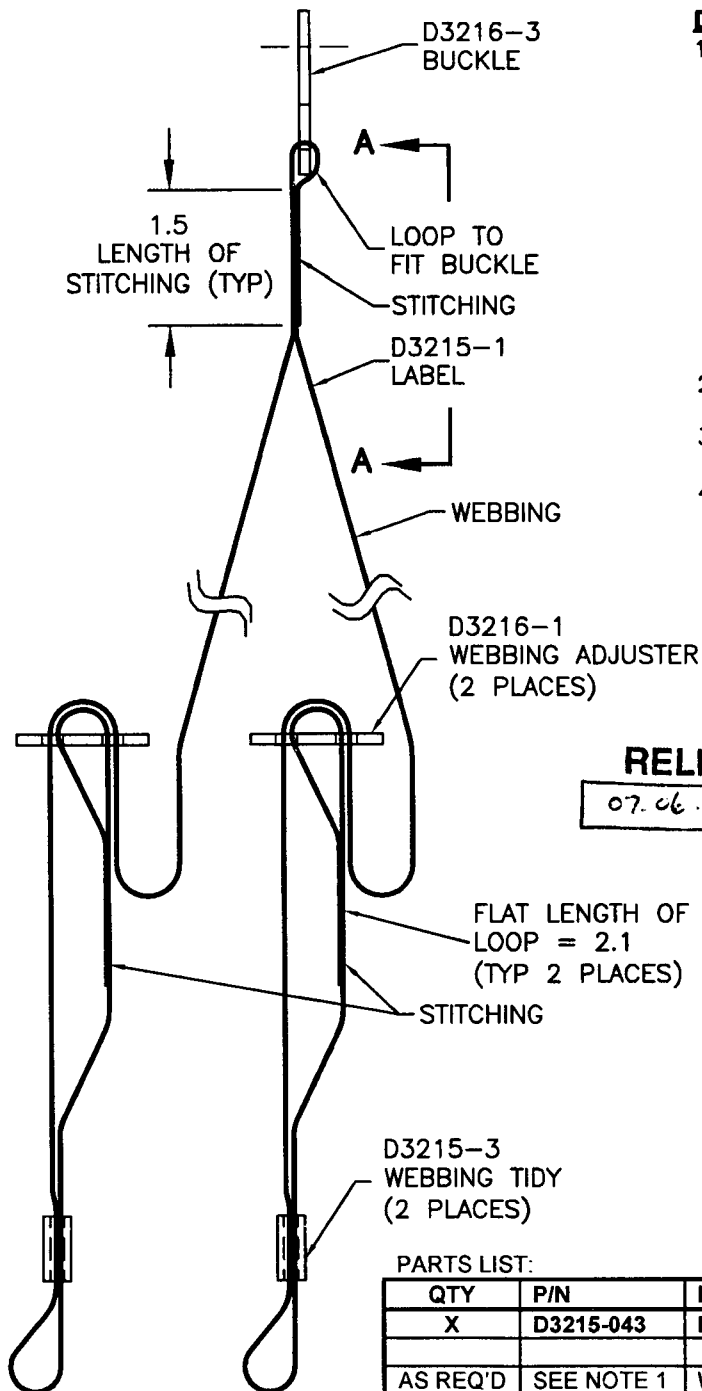


DESIGN <i>GP</i>	DRAWN BY <i>CB</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>LE</i>	APPROVED <i>#</i>	DRAWING NO. D3215	REV. D SHEET 2 OF 3
DATE 07.03.27		TITLE BELT ASSEMBLY	SCALE NTS

w/b 55503

D3215-043 BELT ASSEMBLY:

- 1) MATERIAL:
WEBBING = LAGRAN CANADA INC. 26472, 1.8 WIDE
x 0.05 THICK BLACK POLYESTER WEBBING,
CERTIFIED TO FAR 29.853A3, TENSILE
STRENGTH 5700 lb MIN
OR
 BELT TECH CANADA INC. 27039, 1.8 WIDE
x 0.05 THICK BLACK POLYESTER WEBBING,
CERTIFIED TO FAR 29.853A3, TENSILE
STRENGTH 6000 lb MIN
WEBBING THREAD = V-T-295 TYPE II CLASS A SIZE 3,
BLACK NYLON THREAD
LABEL THREAD = V-T-295 TYPE II CLASS A SIZE F,
BLACK NYLON THREAD
- 2) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE
NOTED.
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS
OTHERWISE NOTED.
- 4) SEE SHEET 3 FOR VIEW A-A



ASSEMBLY DETAIL
NOT TO SCALE

PARTS LIST:

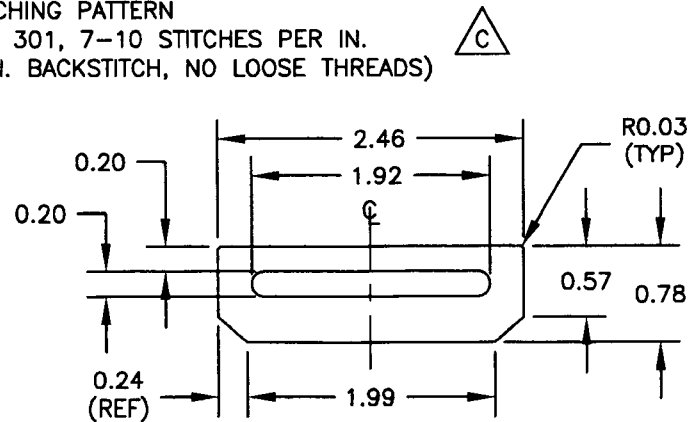
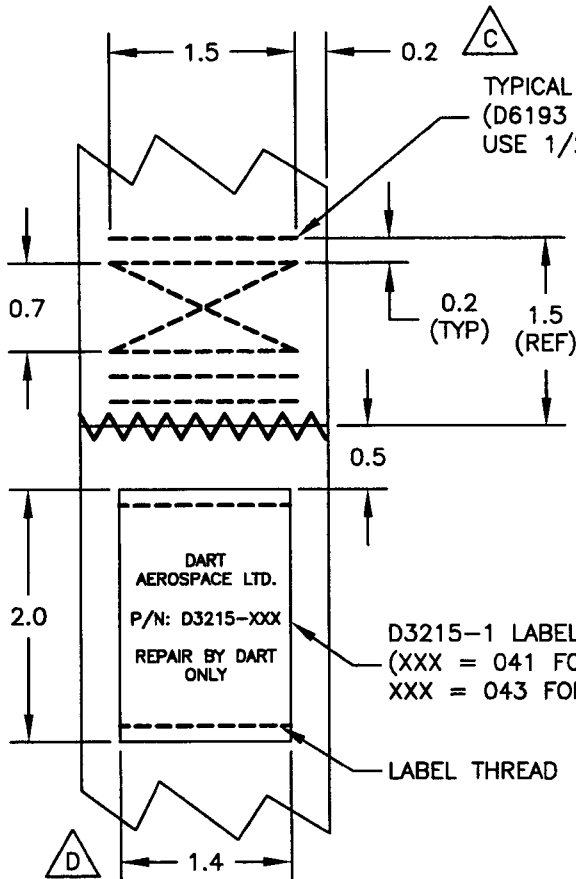
QTY	P/N	DESCRIPTION
X	D3215-043	BELT ASSEMBLY
AS REQ'D	SEE NOTE 1	WEBBING
AS REQ'D	SEE NOTE 1	WEBBING THREAD
AS REQ'D	SEE NOTE 1	LABEL THREAD
1	D3215-1	LABEL
2	D3215-3	WEBBING TIDY
2	D3216-1	WEBBING ADJUSTER

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DART

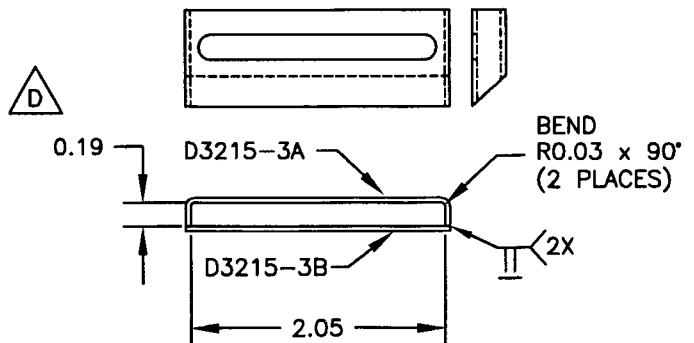
DESIGN <i>GP</i>	DRAWN BY <i>CB</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>CE</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3215	REV. D SHEET 3 OF 3
DATE 07.03.27		TITLE HARNESS ASSEMBLY	SCALE 3:2

**D3215-3A/-3B NOTES:**

- 1) MATERIAL: 5052-H32 ALUMINUM SHEET, 0.040 THICK
PER QQ-A-250/8 OR AMS 4016
(REF DART SPEC. M5052H32S.040)
- 2) BEND D3215-3A PER D3215-3

D3215-1 LABEL:

- 1) MATERIAL: WHITE TYVEK OR
WHITE POLYESTER WHICH MEETS FMVSS 302
- 2) USE 1/8 BLACK LETTERING
- 3) CENTER ON BELT WIDTH

RELEASED07.06 07 *[Signature]***D3215-3 WEBBING TIDY****GENERAL NOTES:**

- 1) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

D3215-3 NOTES:

- 1) WELD PER DART QSI 004
- 2) FINISH: CHEMICAL CONVERSION COAT PER
DART QSI 005 4.1
POWDER COAT BLACK SANDEX (4.3.5.7)
PER DART QSI 005 4.3

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO11181

Purchase Order Date 1/20/10

PO Print Date 1/20/10

Page Number 1 of 1

Order From :

VC-TUL001

TULMAR SAFETY SYSTEMS
1123 CAMERON ST
HAWKESBURY, ON K6A 2B8
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

613 632 1282

613 632 2030

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	D3215-041P	Harness Assembly	2/03/10 Yes	18.00 Each	✓	\$17.0000	\$306.00
		Special Inst:	AS PER DWG: D3215 REV,D B#55503				
2	D3215-043P	Harness Assembly	2/03/10 Yes	4.00 Each	✓ <i>Pickups</i>	\$30.9500	\$123.80
		Special Inst:	AS PER DWG: D3215 REV,D B# 55504				

PO Total:

\$429.80

Change Nbr: 1

Change Date: 1/20/10

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

PACKING SLIP

TULMAR

Tulmar Safety Systems Inc.
1123 Cameron Street
Hawkesbury, ON K6A 2B8 CA
Tel: 613-632-1282
Fax: 613-632-2030
MID : XOTULSAF1123HAW
email: info@tulmar.com

Bill To:

Dart Aerospace
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7. Canada

COPY

Packing Slip No.

35141

Ship Date

25-Feb-10

Ship to:

Dart Aerospace
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7. Canada

Order number	Sales order date	Account number	Account manager
24436	23-Feb-10	CDART100	Barney Bangs
PO number		Ship Via	Shipping Terms
PO11181		Pick-Up	FOB HAWKESBURY
Item No.	Quantity ordered	UOM	Qty Shipped/Returned
Description			Quantity on back order

8937

18

EA

18

Belt Ass'y, 1/2" wide, Black Webbing
Drawing No: D3215 (P/N D3215-041)
DWG Rev: D

Lot No: BATCH0000000024 Qty: 18

QA Clause: RUSH ASAP

8 10/02/26

8938

4

EA

4

Belt Ass'y, 1/2" wide, black Webbing
Drawing No: D3215 (P/N D3215-043)
DWG Rev: D

Lot No: BATCH0000000017 Qty: 4

QA Clause: RUSH ASAP

Shipper

Mike Anderson

Date:

FEB 25 2010

Certificate of Conformance

☐ Not Applicable

☐ See Certification Enclosed

I hereby certify that the items listed hereon have been inspected, and / or tested (as applicable), conform to all specifications and requirements detailed in the contract or purchase order. Objective evidence to support this statement is on file, and can be made available upon request.

If any questions or concerns, please contact QA Manager @ 613-632-1282 ext. 245.

Authorized Inspector

Loraine Lalonde

Date:

FEB 25 2010

MFG: by: **Tulmar Safety Systems Inc.**

S/O 24436

TSS 8937

Dart P/N:D3215-041

QTY: 18





American & Efid Inc.
Post Office Box - 507
Mount Holly, NC -28120

Test Report

Date : 1/29/2010

Mfg. Date : 11/18/2009

Quantity: 42

Lot-Id : 661627

Product : Tex 90 BONDED 'Z' NYLON FILAMENT Black AA 63002 16 OZ

Specification : VT295E TPII CLA F BT92N4

Customer Order Number : 15245

Customer : Tulmar Safety Systems Inc

Shipped To : Tulmar Safety Systems Inc

Plys (Visual) : 4

Twist Direction : Z

A&E Color : 63002 Black
AA

8/10/2006

Characteristic	Test1	Test2	Test3	Test4	Test5	Average	Minimum	Maximum
Strength #1 (Pound)	14.2	14	14	14.5	14.2			
Strength #2 (Pound)	15.2	15	15.1	15.2	15.2			
Average Strength (Pound)						14.7	11.8	

Elongation #1 (Percent)	19.3	18.5	18.6	19.4	19.1			
Elongation #2 (Percent)	20.2	20.3	20.6	20.8	20.6			
Average Elongation (Percent)						19.7		26

Twist S #1 (Turns per inch)	12.3							
Twist S #2 (Turns per inch)	12.3							
Average Twist S (Turns per inch) Initial Twist						12.3		

Twist Z #1 (Turns per inch)	8.2							
Twist Z #2 (Turns per inch)	8.2							
Average Twist Z (Turns per inch) Final Twist						8.2	5.5	

Yield #1 (Yards/Pound)	4235.8							
Yield #2 (Yards/Pound)	4196							
Average Yield (Yards/Pound)						4215.9	3600	5200

Shade Evaluation: GOOD
Laundering: GOOD
Perspiration: GOOD
Wet Dry Cleaning: GOOD
Light Test: GOOD

used on TSS 8937 + 8938

TSS #2530/39 (5)

COPY

I certify that the above test were performed under my supervision and in accordance with the specification test requirements and that the reported test results are true, valid and applicable to the samples tested. I further certify that these samples were the only samples tested from the lot of components identified above.

Signed : *Jack D. Munday*
Testing Director



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TSS # 2530/39

②



cansew inc.

formerly / anciennement
Canadian Sewing Supply Ltd. / Ltée - established / établie 1924

Manufacturers of sewing threads. / Wholesalers of elastics, Velcro, tapes, trimmings.
Fabricants de fils à coudre. / Grossistes d'élastiques, Velcro, galons, garnitures.

COPY

21 August 2008

Tulmar Safety Systems
1123 Cameron Street
Hawksbury, Ontario
K6A 2B8

Att. Sandra Nadeau

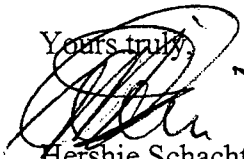
8
10/02/06

CERTIFICATE OF COMPLIANCE

This is to certify that the items mentioned below, shipped to Tulmar Safety Systems by CANSEW INC. on 21 August 2008, have been produced in accordance with the requirements of Purchase Order no. 14637-00 of the same date:

- TSS 2530 - Bonded Nylon CBB92 - 19.3 lb, colour black, lot # 675301, meeting the requirements of specification V-T-295, Type 2, Class A, Size F
- TSS 2524 - Bonded Nylon CBB92 - 39.76 lb, colour OG-107, lot # 614998 and 667896, meeting the requirements of specification V-T-295, Type 2, Class A, Size F
- TSS 2525 - Bonded Nylon CB207 - 20.96 lb, colour black, lot # 656160, meeting the requirements of specification V-T-295, Type 2, Class A, Size 3, 3 ply

Yours truly,


Hershie Schachter
CANSEW INC.

used on TSS 8937 + 8938

TSS 2530/17

MONTREAL - Head Office/Siege social
111 Chabanel W./O. H2N 1C9
Administration (514) 382-2807
Commandes/Orders (514) 382-2801
1-800-361-7722
FAX: (514) 385-5530

TORONTO
28 Apex Rd. M6A 2V2
(416) 782-1122
1-800-387-8584
FAX: (416) 782-8358

WINNIPEG
1674 Church Ave R2X 2W9
(204) 942-4264
1-800-665-0701
FAX: (204) 947-9280

CALGARY
3932 - 29th St. N.E. T1Y 6B6
(403) 291-4494
1-800-667-4197
FAX: (403) 291-5139

VANCOUVER
1615 Venables St. V5L 2H1
(604) 682-4341
1-800-580-0737
FAX: (604) 682-4196

Belt-Tech Products Inc.

Certificate of Compliance No : 53 281 (Épreuve)

Page : 1 de
Date : 2009-12-21
Time : 08:26:25

Pattern : 27039
Color : CG008 BLACK
Customer : TULMAR SAFETY SYSTEMS
Nissan

Width : 47.000
Meters : For quantity, please refer to packing list

Dye lot No : 416419
Warp Order :
Test Date : 2009/01/21

Legend : Y = Good - Pass
N = Fail

Customer Part Number

Test Method	Date	Type of Test	Min. Spec.	Max. Spec.	Median	Test 1	Test 2	Test 3
FMVSS 209	2008/10/01	Width - no load (mm)	46.000	48.000	46.410	46.470	46.410	46.390 Y
SAE J 882	2002/05/01	Thickness - original (mm)	1.140	1.400	1.170	1.172	1.170	1.169 Y
ASTM D-3775	2003/09/10	Picks per cm	7.000		7.000	7.000	7.000	7.000 Y
FMVSS 209	2008/10/01	Elongation - @ 11.1 kn load (%)		20.000	6.260	6.400	6.260	6.130 Y
FMVSS 209	2008/10/01	Tensile - original (lbs)	6,700.000		6,927.000	6,900.000	6,927.000	6,954.000 Y
FMVSS 209	2008/10/01	Tensile - hex-bar % of original	75.000		86.300	86.300	85.500	87.100 Y
AATCC TM 8	2007/01/01	Crocking "wet"	3.000		4.500	4.500	4.500	4.500 Y
AATCC TM 8	2007/01/01	Crocking "dry"	3.000		4.500	4.500	4.500	4.500 Y
AATCC TM 107	2002/01/01	Dye stability (staining) *	3.000		4.500	4.500	4.500	4.500 Y

Specification(s) : FMVSS 209 revised on 2008-10-01

FMVSS 302 revised on 2008-10-01

Comment(s)

810101/26

This is to certify that this product conforms to the specification(s) mentioned above and the requirement(s) outlined in the Purchase Order # and was tested at $22 \pm 3^{\circ}\text{C}$ temperature and 45-55 % relative humidity.

Not applicable for downgraded (second) material

If this document is not signed, it is to be regarded as a non-controlled version

Tested by :

Approved by :

used for TSS 8937 + 8938

TSS 2281 / 11 (82)